MDX-C8970

SONY

US Model

SERVICE MANUAL

SUPPLEMENT-1

File this supplement with the service manual.

Subject: Main/Display/Relay Boards Modification

(ECN-CSB00896)

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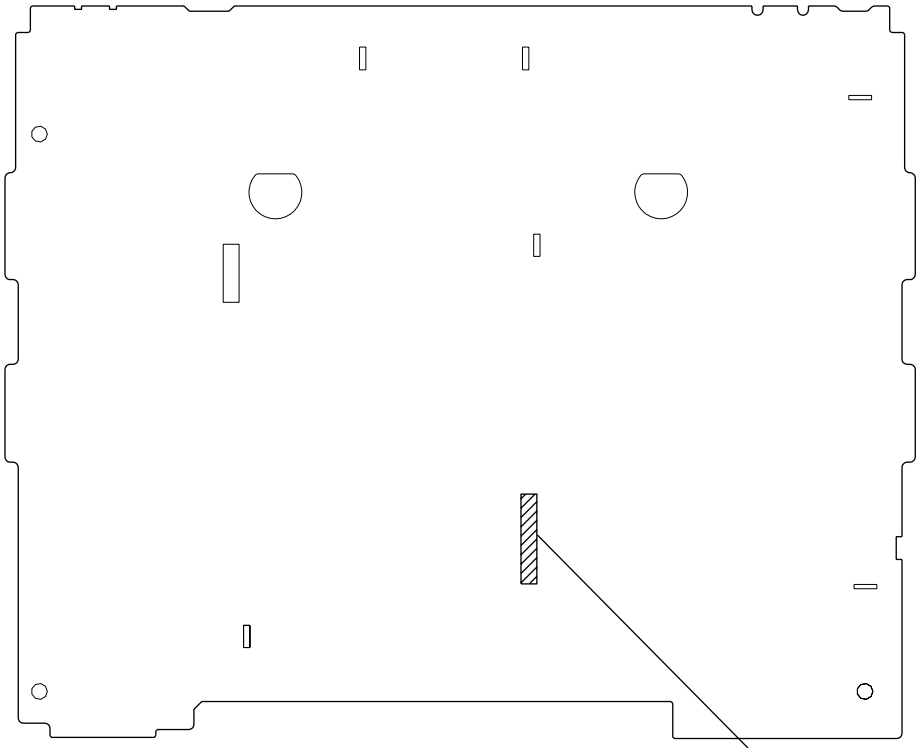
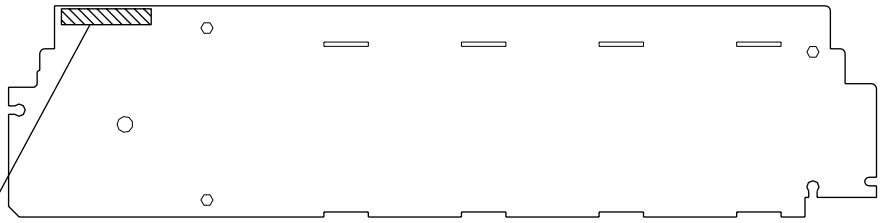
1. DISCRIMINATION

– MAIN BOARD (Component Side) –



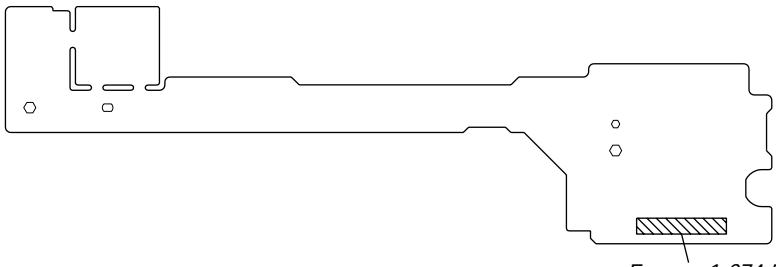
Former :1-674-589-11
New :1-674-589-12

– DISPLAY BOARD (Conductor Side) –



Former :1-674-590-11
New :1-674-590-12

– RELAY BOARD (Component Side) –



Former :1-674-591-11
New :1-674-591-12

2. DIAGRAMS

2-1. NOTE FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS

(In addition to this, the necessary note is printed in each block)

Note on Printed Wiring Boards:

- ○——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- △ : internal component.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

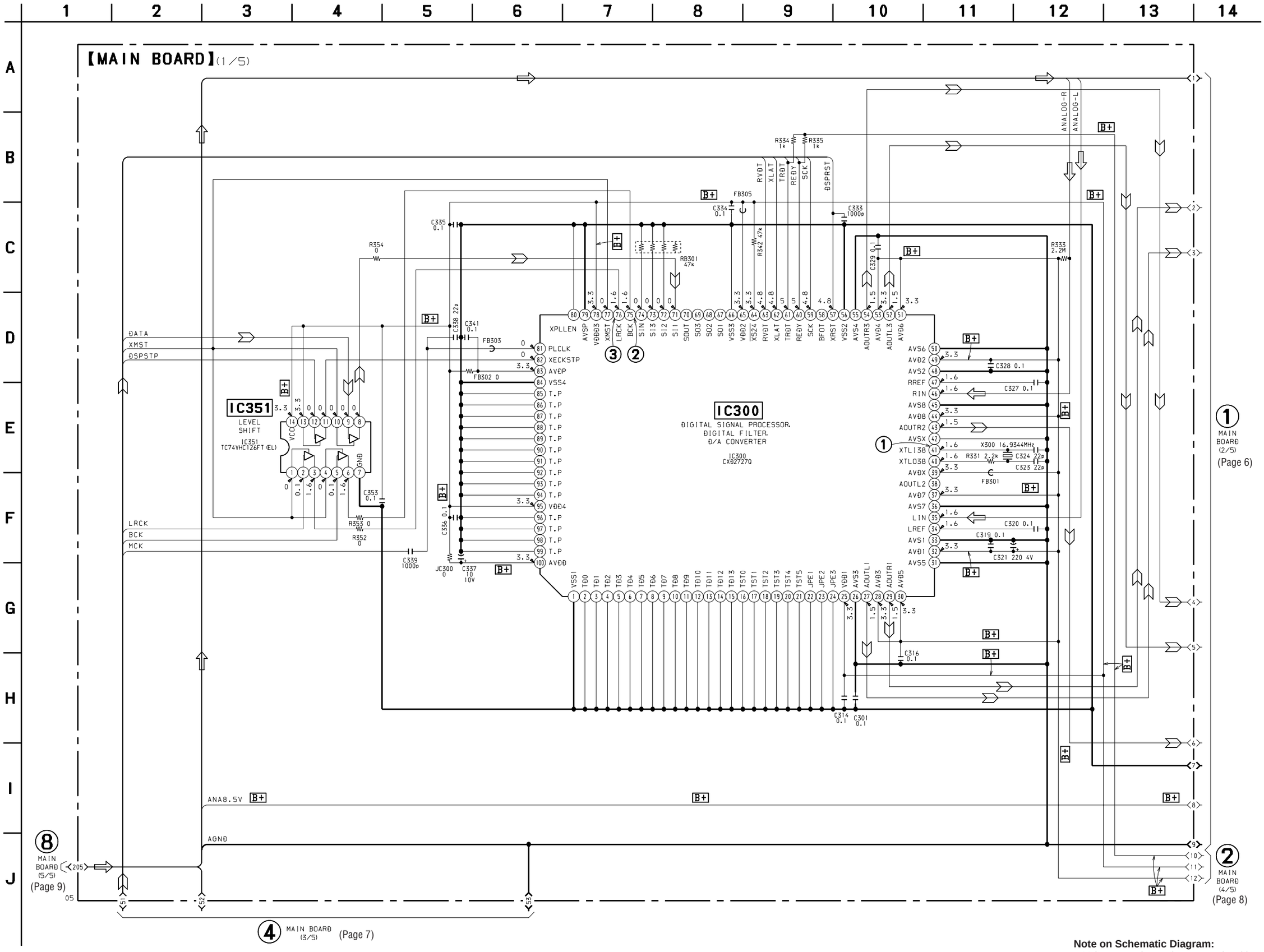
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- **B +** : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : AM
  - ⇨ : MD

2-2. SCHEMATIC DIAGRAM – MAIN Board (1/5) –



Note on Schematic Diagram:

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

2-3. SCHEMATIC DIAGRAM – MAIN Board (2/5) –

【MAIN BOARD】(2/5)

IC602 ELECTRICAL VOLUME
IC601 LOW-PASS FILTER
IC603 BUFFER
IC604 LINE DRIVER
IC634 LINE DRIVER
IC691 CSV MIX SWITCH
IC632 ELECTRICAL VOLUME
IC633 BUFFER
IC631 LOW-PASS FILTER
IC663 BUFFER
IC661 LOW-PASS FILTER, CENTER VOLTAGE GENERATOR (FOR BIAS)
IC481 POWER AMP
Q601. 602 MUTING
Q631. 632 MUTING
Q661. 662 MUTING
Q471 MUTING CONTROL SWITCH
Q472 BATTERY OFF MUTE DRIVE
Q473. 474 MUTING CONTROL SWITCH

CNP601 6P: LINE OUT FRONT, LINE OUT REAR, BUS AUDIO IN
CN291 3P: 1 L-CH, 2 GND, 3 R-CH
(L) (R) SUB OUT

① MAIN BOARD (1/5) (Page 5)
③ MAIN BOARD (3/5) (Page 7)
⑥ MAIN BOARD (4/5) (Page 8)

Note on Schematic Diagram:
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

2-4. SCHEMATIC DIAGRAM – MAIN Board (3/5) –

【MAIN BOARD】(3/5)

IC500 MASTER CONTROLLER
IC500 MB90574APMT-G-214-BND

IC506 RESET SIGNAL GENERATOR

IC507 RAM RESET
IC507 RN5V055AA-TL

Q501 RESET SWITCH ON MUTING DRIVER

Q504 DTC144EK-T146 BUZZER DRIVE

Q523 XN1111-TX KEY ACTIVE SWITCH

X500 3.58MHz

X501 32.768KHz

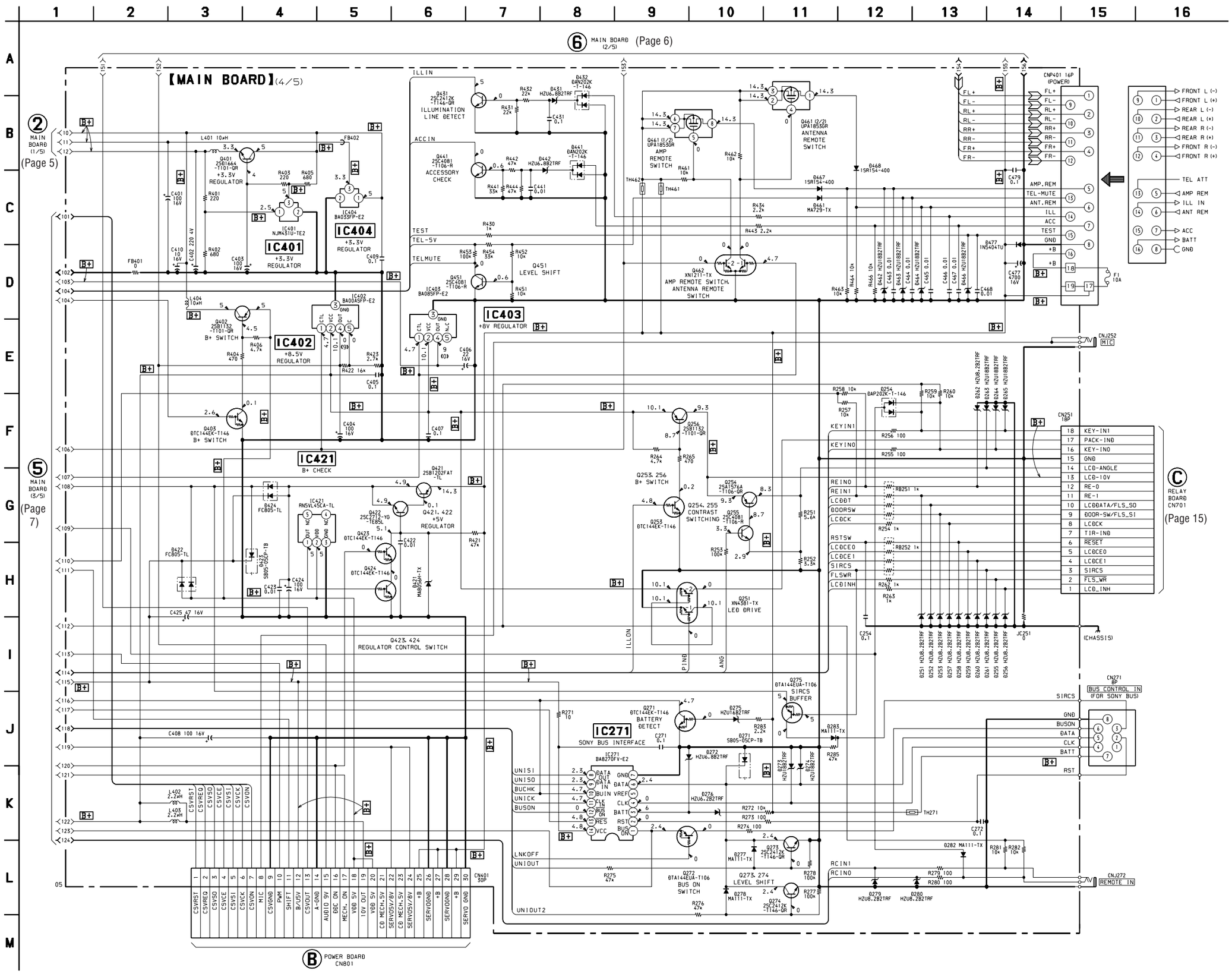
CN202 30P

FLEXIBLE BOARD

Note on Schematic Diagram:

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  ⟨⟨ ⟩⟩ : MD PLAY

2-5. SCHEMATIC DIAGRAM – MAIN Board (4/5) –



Note on Schematic Diagram:

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ⟨⟨ ⟩⟩ : MD PLAY

2-6. SCHEMATIC DIAGRAM – MAIN Board (5/5) –

【MAIN BOARD】(5/5)

IC151 FM/AM PLL

IC701 LIQUID CRYSTAL DISPLAY DRIVE CONTROLLER

IC752 MUTING

IC771 INPUT SELECT

IC702 LEVEL SHIFT

Q752. 753 MUTING

Q131. 132 WIDE/ NARROW SWITCH

Q180. 182 B+ SWITCH

Q181. 183 INVERTER

⑦ MAIN BOARD (3/5) (Page 7)

⑧ MAIN BOARD (1/5) (Page 5)

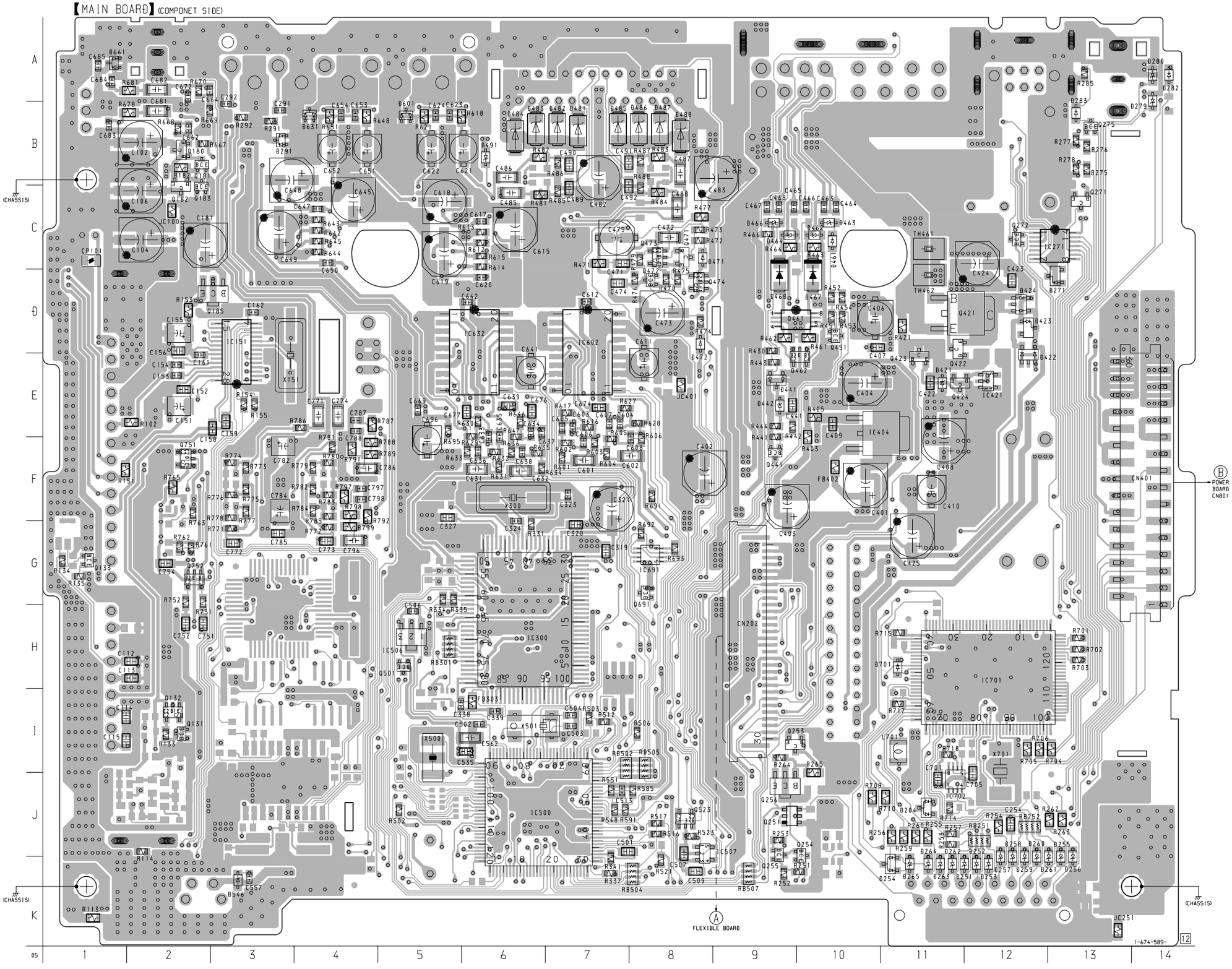
Note on Schematic Diagram:

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : AM
  ⟨⟨ ⟩⟩ : MD PLAY

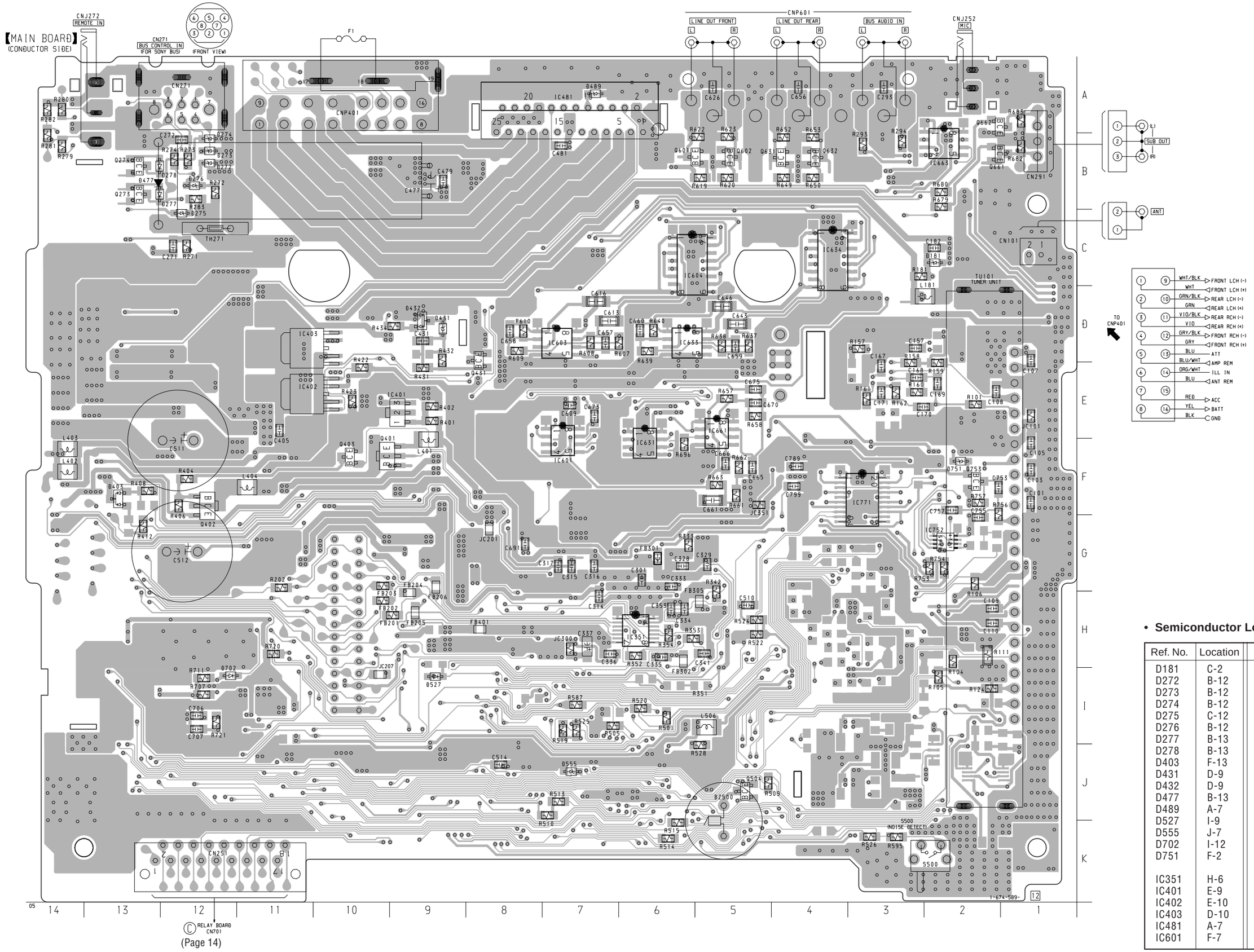
2-7. PRINTED WIRING BOARD – MAIN Board (Component Side) –

- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D204	J-11	D701	H-11
D251	K-12		
D252	K-12	IC151	E-3
D253	K-12	IC271	C-13
D254	K-11	IC300	H-6
D255	K-13	IC404	E-10
D256	K-13	IC421	E-12
D257	K-12	IC500	J-6
D258	K-12	IC506	H-5
D259	K-12	IC507	J-8
D260	K-12	IC602	D-7
D261	K-13	IC632	D-6
D262	K-11	IC691	G-8
D263	K-11	IC701	H-12
D264	K-11	IC702	J-11
D265	K-11		
D271	D-13	Q131	I-2
D279	B-14	Q132	I-2
D280	A-14	Q133	G-1
D282	A-14	Q180	B-2
D283	B-13	Q181	B-2
D291	B-3	Q182	C-2
D421	E-11	Q183	C-2
D422	E-12	Q185	D-3
D423	D-12	Q251	J-9
D424	D-12	Q253	I-9
D441	E-9	Q254	J-10
D442	E-9	Q255	J-9
D461	C-10	Q256	J-9
D462	C-10	Q271	C-13
D463	C-10	Q272	C-12
D464	C-9	Q275	B-13
D466	C-9	Q421	D-11
D467	D-10	Q422	D-11
D468	D-9	Q423	E-11
D471	C-8	Q424	E-11
D472	D-8	Q441	F-9
D481	B-7	Q451	D-10
D482	B-7	Q461	D-9
D483	B-6	Q462	E-10
D484	B-6	Q471	C-8
D485	B-7	Q472	D-8
D486	B-8	Q473	C-8
D487	B-8	Q474	D-8
D488	B-8	Q501	H-5
D491	B-6	Q523	J-8
D546	K-3	Q691	G-8
D601	B-5	Q751	F-2
D631	B-4	Q752	G-2
D661	A-1		



2-8. PRINTED WIRING BOARD – MAIN Board (Conductor Side) –



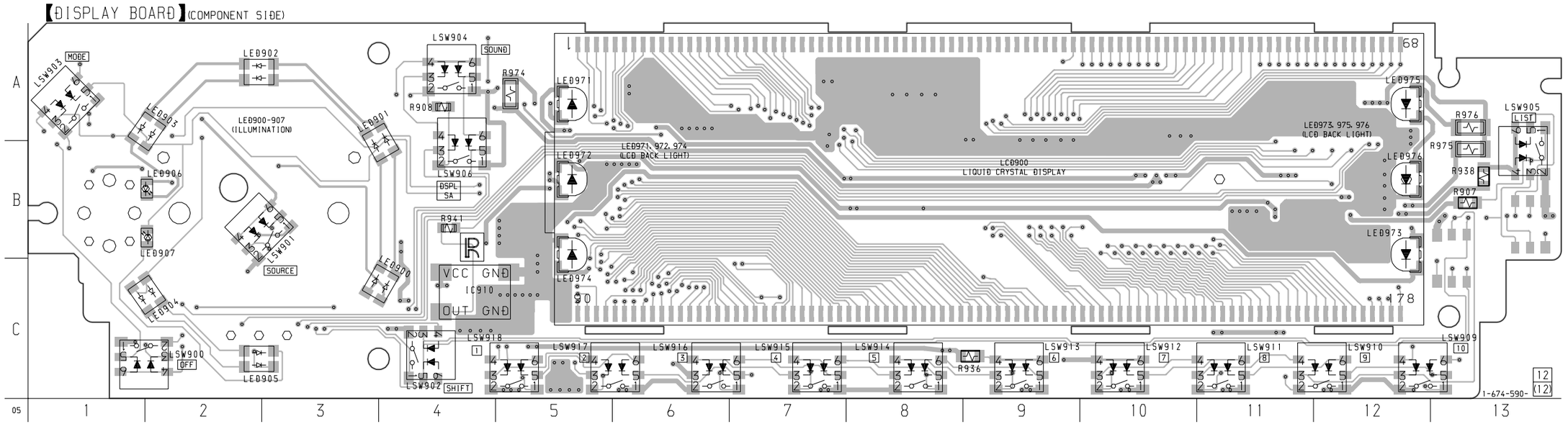
- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D181	C-2	IC603	D-7
D272	B-12	IC604	C-6
D273	B-12	IC631	F-6
D274	B-12	IC633	D-6
D275	C-12	IC634	C-4
D276	B-12	IC661	E-5
D277	B-13	IC663	B-2
D278	B-13	IC752	G-2
D403	F-13	IC771	F-3
D431	D-9		
D432	D-9	Q273	B-13
D477	B-13	Q274	B-13
D489	A-7	Q401	F-9
D527	I-9	Q402	F-12
D555	J-7	Q403	F-10
D702	I-12	Q431	D-8
D751	F-2	Q504	J-5
		Q601	B-5
IC351	H-6	Q602	B-5
IC401	E-9	Q631	B-4
IC402	E-10	Q632	B-4
IC403	D-10	Q661	B-2
IC481	A-7	Q662	A-2
IC601	F-7	Q753	F-2

2-9. PRINTED WIRING BOARD – DISPLAY Board –

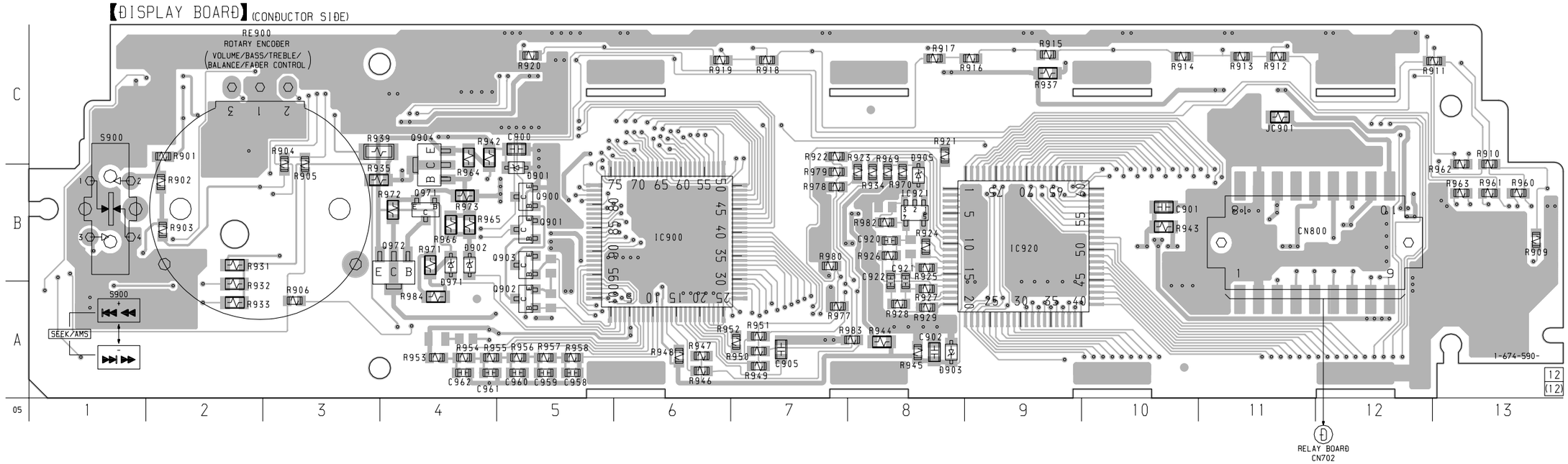
- **Semiconductor Location (Component Side)**

Ref. No.	Location
IC910	C-4
LED900	C-4
LED901	B-4
LED902	A-3
LED903	A-2
LED904	C-2
LED905	C-2
LED906	B-2
LED907	B-2
LED971	A-5
LED972	B-5
LED973	C-12
LED974	C-5
LED975	A-12
LED976	B-12



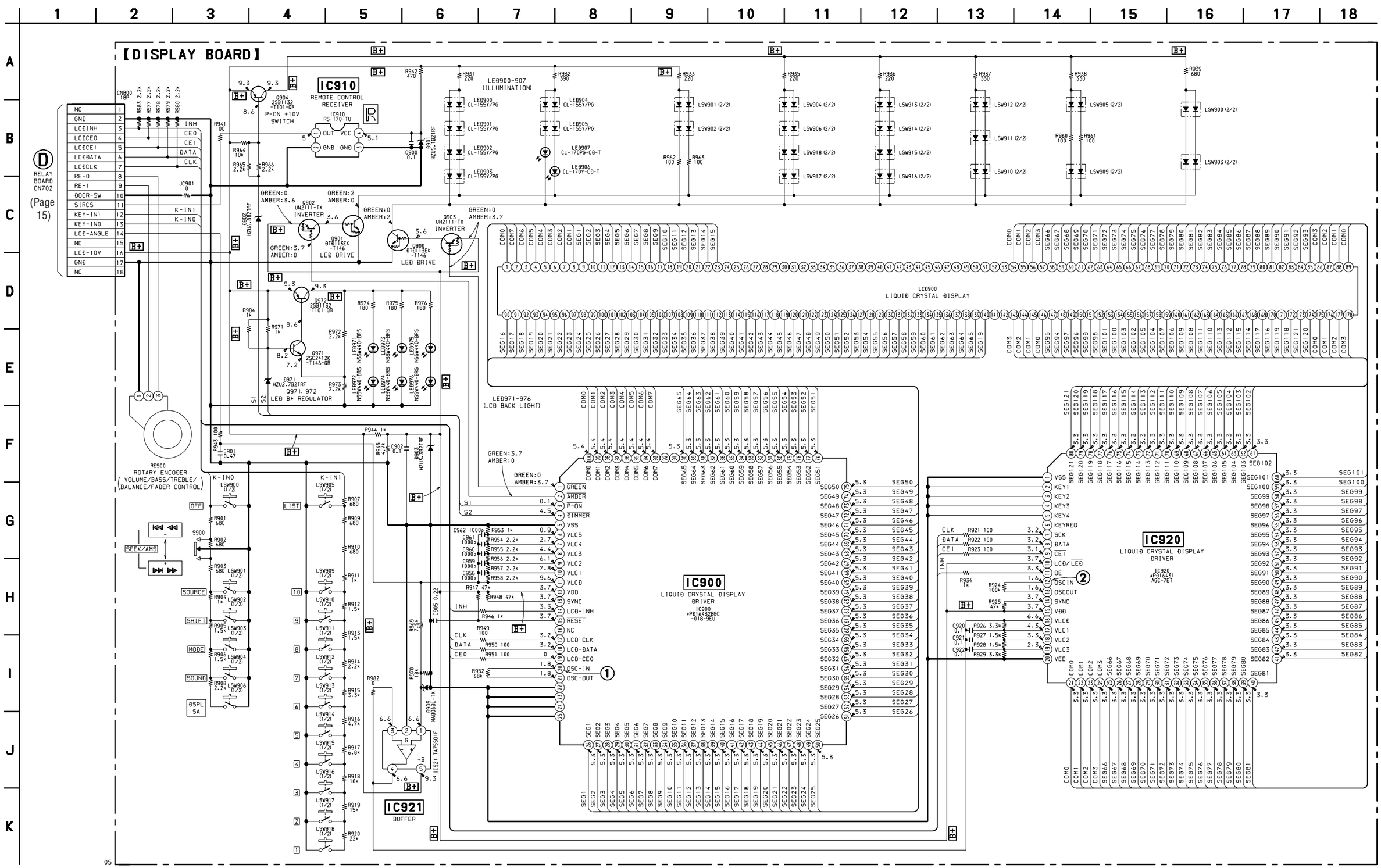
- **Semiconductor Location (Conductor Side)**

Ref. No.	Location
D901	B-5
D902	B-4
D903	A-8
D905	B-8
D971	B-4
IC900	B-6
IC920	B-9
IC921	B-8
Q900	B-5
Q901	B-5
Q902	A-5
Q903	B-5
Q904	B-4
Q971	B-4
Q972	B-4



(Page 14)

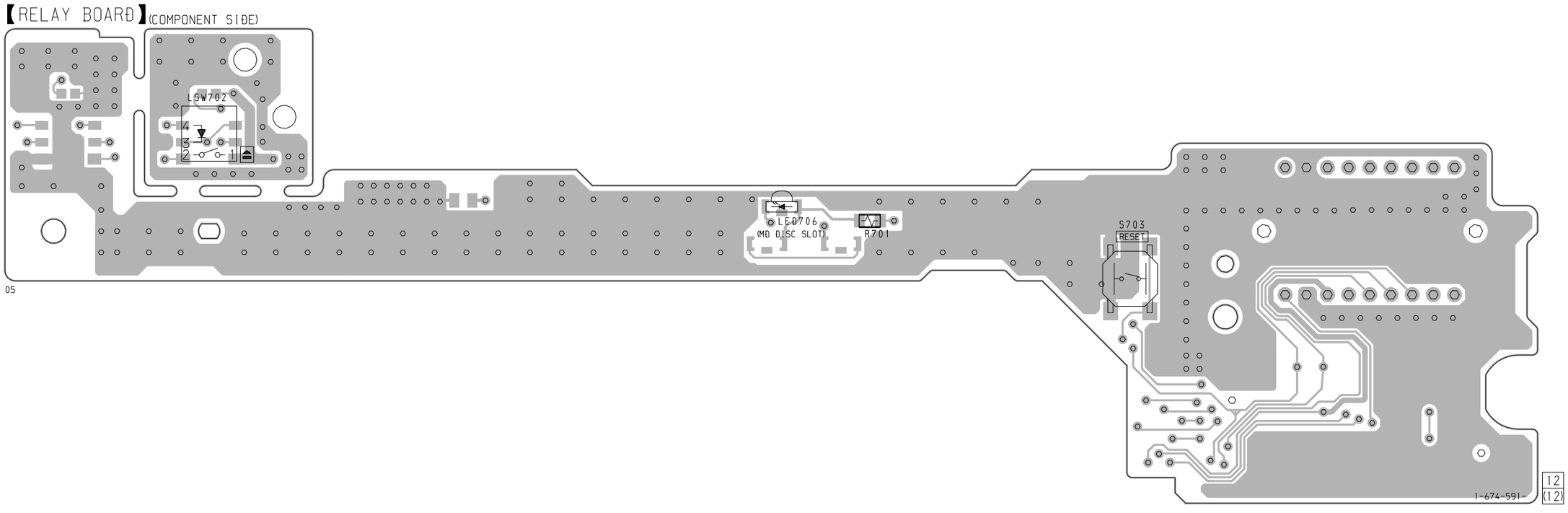
2-10. SCHEMATIC DIAGRAM – DISPLAY Board –



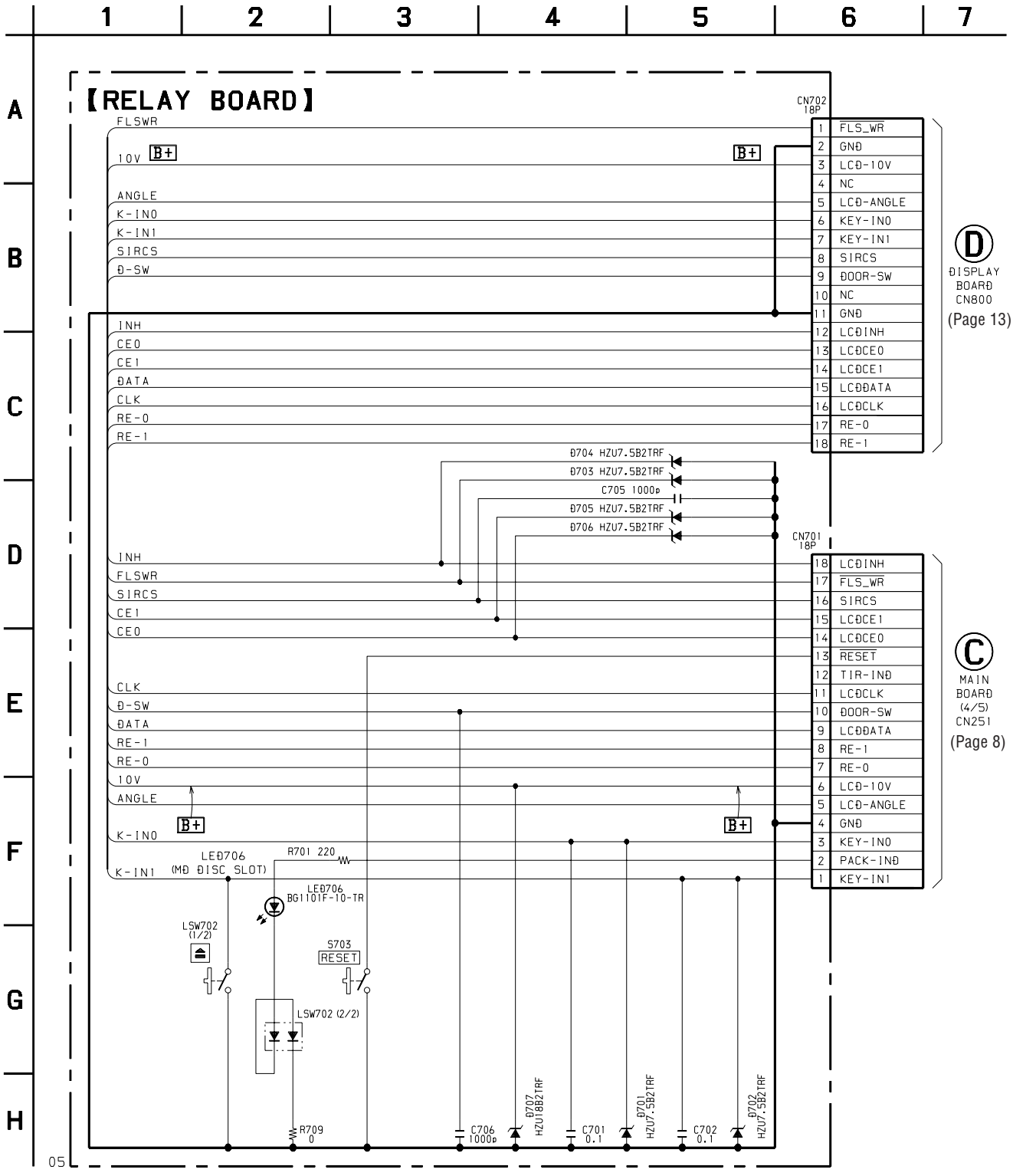
Note on Schematic Diagram:

- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM

2-11. PRINTED WIRING BOARD – RELAY Board –



2-12. SCHEMATIC DIAGRAM – RELAY Board –



3. ELECTRICAL PARTS LIST

DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
		DISPLAY BOARD	
		**********	
	1-694-414-11	CONDUCTOR BOARD, CONNENTION (RUBBER CONNECTOR)	
*	3-037-000-01	SHEET, DIFFUSION	
*	3-037-152-01	BRACKET (LCD)	
*	3-037-669-01	PLATE (LCD), LIGHT GUIDE	
		< CAPACITOR >	
C900	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C901	1-107-823-11	CERAMIC CHIP 0.47uF 10% 16V	
C902	1-164-004-11	CERAMIC CHIP 0.1uF 10% 25V	
C905	1-164-489-11	CERAMIC CHIP 0.22uF 10% 16V	
C920	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C921	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C922	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C958	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C959	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C960	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C961	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
C962	1-162-964-11	CERAMIC CHIP 0.001uF 10% 50V	
		< CONNECTOR >	
CN800	1-778-183-11	PLUG, CONNECTOR 18P	
		< DIODE >	
D901	8-719-976-99	DIODE HZU5.1B2TRF	
D902	8-719-064-08	DIODE HZU6.8B2TRF	
D903	8-719-071-62	DIODE HZU3.3B2TRF	
D905	8-719-017-62	DIODE MA8068-L-TX	
D971	8-719-056-73	DIODE UDZ-TE-17-2.7B	
D971	8-719-071-59	DIODE HZU2.7B2TRF	
		< IC >	
IC900	8-759-496-75	IC uPD16432BGC-018-9EU	
IC910	8-749-012-25	IC RS-170-TU	
IC920	8-759-580-20	IC uPD16431AGC-7ET	
IC921	8-759-075-66	IC TA75S01F (TE85L)	
		< SHORT >	
JC901	1-216-295-00	SHORT 0	

Ref. No.	Part No.	Description	Remark
		< LIQUID CRYSTAL DISPLAY >	
LCD900	1-803-633-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< LED >	
LED900	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED901	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED902	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED903	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED904	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED905	8-719-987-45	LED CL-155Y/PG-CD-TL (ILLUMINATION)	
LED906	8-719-033-13	LED CL-170Y-CD-T (ILLUMINATION)	
LED907	8-719-033-14	LED CL-170PG-CD-T (ILLUMINATION)	
LED971	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED972	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED973	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED974	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED975	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
LED976	8-719-076-58	LED NSSW440-BRS (LCD BACK LIGHT)	
		< SWITCH >	
LSW900	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (OFF)	
LSW901	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOURCE)	
LSW902	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SHIFT)	
LSW903	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (MODE)	
LSW904	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (SOUND)	
LSW905	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (LIST)	
LSW906	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (DSPL, SA)	
LSW909	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (10)	
LSW910	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (9)	
LSW911	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (8)	
LSW912	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (7)	
LSW913	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (6)	
LSW914	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (5)	
LSW915	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (4)	
LSW916	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (3)	
LSW917	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (2)	
LSW918	1-762-620-21	SWITCH, KEY BOARD (WITH LED) (1)	
		< TRANSISTOR >	
Q900	8-729-904-66	TRANSISTOR DTD113EK-T-146	
Q901	8-729-904-66	TRANSISTOR DTD113EK-T-146	
Q902	8-729-424-08	TRANSISTOR UN2111-TX	
Q903	8-729-424-08	TRANSISTOR UN2111-TX	

Ref. No.	Part No.	Description			Remark
Q904	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q971	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q972	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
		< RESISTOR >			
R901	1-219-286-11	RES, CHIP	680	2%	1/16W
R902	1-219-286-11	RES, CHIP	680	2%	1/16W
R903	1-219-286-11	RES, CHIP	680	2%	1/16W
R904	1-218-847-11	RES, CHIP	1K	2%	1/16W
R905	1-218-851-11	RES, CHIP	1.5K	2%	1/16W
R906	1-218-851-11	RES, CHIP	1.5K	2%	1/16W
R907	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R908	1-218-855-11	RES, CHIP	2.2K	2%	1/16W
R909	1-219-286-11	RES, CHIP	680	2%	1/16W
R910	1-219-286-11	RES, CHIP	680	2%	1/16W
R911	1-218-847-11	RES, CHIP	1K	2%	1/16W
R912	1-218-851-11	RES, CHIP	1.5K	2%	1/16W
R913	1-218-851-11	RES, CHIP	1.5K	2%	1/16W
R914	1-218-855-11	RES, CHIP	2.2K	2%	1/16W
R915	1-218-859-11	RES, CHIP	3.3K	2%	1/16W
R916	1-218-863-11	RES, CHIP	4.7K	2%	1/16W
R917	1-218-867-11	RES, CHIP	6.8K	2%	1/16W
R918	1-218-871-11	RES, CHIP	10K	2%	1/16W
R919	1-218-875-11	RES, CHIP	15K	2%	1/16W
R920	1-218-879-11	RES, CHIP	22K	2%	1/16W
R921	1-216-809-11	METAL CHIP	100	5%	1/16W
R922	1-216-809-11	METAL CHIP	100	5%	1/16W
R923	1-216-809-11	METAL CHIP	100	5%	1/16W
R924	1-216-845-11	METAL CHIP	100K	5%	1/16W
R925	1-216-841-11	METAL CHIP	47K	5%	1/16W
R926	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R927	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R928	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R929	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R931	1-216-033-00	METAL CHIP	220	5%	1/10W
R932	1-216-039-00	METAL CHIP	390	5%	1/10W
R933	1-216-033-00	METAL CHIP	220	5%	1/10W
R934	1-216-821-11	METAL CHIP	1K	5%	1/16W
R935	1-216-033-00	METAL CHIP	220	5%	1/10W
R936	1-216-033-00	METAL CHIP	220	5%	1/10W
R937	1-216-037-00	METAL CHIP	330	5%	1/10W
R938	1-216-037-00	METAL CHIP	330	5%	1/10W
R939	1-216-194-00	METAL CHIP	680	5%	1/8W
R941	1-216-809-11	METAL CHIP	100	5%	1/16W
R942	1-216-041-00	METAL CHIP	470	5%	1/10W
R943	1-216-025-00	RES, CHIP	100	5%	1/10W
R944	1-216-049-11	RES, CHIP	1K	5%	1/10W
R945	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R946	1-216-821-11	METAL CHIP	1K	5%	1/16W
R947	1-216-841-11	METAL CHIP	47K	5%	1/16W
R948	1-216-841-11	METAL CHIP	47K	5%	1/16W
R949	1-216-809-11	METAL CHIP	100	5%	1/16W
R950	1-216-809-11	METAL CHIP	100	5%	1/16W
R951	1-216-809-11	METAL CHIP	100	5%	1/16W
R952	1-216-843-11	METAL CHIP	68K	5%	1/16W
R953	1-216-821-11	METAL CHIP	1K	5%	1/16W
R954	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R955	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R956	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R957	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R958	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R960	1-216-809-11	METAL CHIP	100	5%	1/16W
R961	1-216-809-11	METAL CHIP	100	5%	1/16W
R962	1-216-809-11	METAL CHIP	100	5%	1/16W
R963	1-216-809-11	METAL CHIP	100	5%	1/16W
R964	1-216-073-00	METAL CHIP	10K	5%	1/10W
R965	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R966	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R969	1-218-713-11	METAL CHIP	7.5K	0.5%	1/16W
R970	1-218-722-11	METAL CHIP	18K	0.5%	1/16W
R971	1-216-049-11	RES, CHIP	1K	5%	1/10W
R972	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R973	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R974	1-216-180-00	RES, CHIP	180	5%	1/8W
R975	1-216-180-00	RES, CHIP	180	5%	1/8W
R976	1-216-180-00	RES, CHIP	180	5%	1/8W
R977	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R978	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R979	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R980	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R982	1-216-864-11	METAL CHIP	0	5%	1/16W
R983	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R984	1-216-049-11	RES, CHIP	1K	5%	1/10W
		< ROTARY ENCODER >			
RE900	1-475-014-11	ENCODER, ROTARY (VOLUME/BASS/TREBLE/ BALANCE/FADER CONTROL)			
		< SWITCH >			
S900	1-771-290-11	SWITCH, SLIDE (SEEK/AMS, ▶▶I ▶▶ +, I◀◀ ◀◀ –)			
**********					
*	A-3317-847-A	MAIN BOARD, COMPLETE			
		**********			
*	3-022-317-01	BRACKET (AMP)			
*	3-023-841-11	HEAT SINK			
	7-685-794-09	SCREW +PTT 2.6X10 (S)			
		< BUZZER >			
BZ500	1-504-920-11	BUZZER			
		< CAPACITOR >			
C101	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C102	1-117-681-11	ELECT CHIP	100uF	20%	16V
C103	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C104	1-117-681-11	ELECT CHIP	100uF	20%	16V
C105	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C106	1-117-681-11	ELECT CHIP	100uF	20%	16V
C107	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C108	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C109	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C110	1-163-986-00	CERAMIC CHIP	0.027uF	10%	25V
C112	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V

MAIN

Ref. No.	Part No.	Description			Remark
C113	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C114	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C115	1-163-275-11	CERAMIC CHIP	0.001uF	5%	50V
C151	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
C152	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C153	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C154	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C155	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
C156	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C157	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C158	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C159	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C161	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C162	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C167	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C168	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C169	1-164-344-11	CERAMIC CHIP	0.068uF	10%	25V
C170	1-163-019-00	CERAMIC CHIP	0.0068uF	10%	50V
C171	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C181	1-126-204-11	ELECT CHIP	47uF	20%	16V
C182	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C254	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C271	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C272	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C291	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C292	1-162-927-11	CERAMIC CHIP	100PF	5%	50V
C293	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C301	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C314	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C316	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C319	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C320	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C321	1-126-246-11	ELECT CHIP	220uF	20%	4V
C323	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C324	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C327	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C328	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C329	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C333	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C334	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C335	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C336	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C337	1-104-851-11	TANTALUM CHIP	10uF	20%	10V
C338	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C339	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C341	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C353	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C401	1-117-681-11	ELECT CHIP	100uF	20%	16V
C402	1-126-246-11	ELECT CHIP	220uF	20%	4V
C403	1-117-681-11	ELECT CHIP	100uF	20%	16V
C404	1-117-681-11	ELECT CHIP	100uF	20%	16V
C405	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C406	1-126-395-11	ELECT	22uF	20%	16V
C407	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C408	1-117-681-11	ELECT CHIP	100uF	20%	16V
C409	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C410	1-124-779-00	ELECT CHIP	10uF	20%	16V
C422	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C423	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C424	1-117-681-11	ELECT CHIP	100uF	20%	16V
C425	1-126-204-11	ELECT CHIP	47uF	20%	16V
C431	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C441	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C463	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C464	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C465	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C466	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C467	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C468	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C471	1-109-982-11	CERAMIC CHIP	1uF	10%	10V
C472	1-115-566-11	CERAMIC CHIP	4.7uF	10%	10V
C473	1-117-681-11	ELECT CHIP	100uF	20%	16V
C474	1-164-346-11	CERAMIC CHIP	1uF		16V
C475	1-126-395-11	ELECT	22uF	20%	16V
C477	1-115-469-31	ELECT	4700uF	99%	16V
C479	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C481	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C482	1-126-204-11	ELECT CHIP	47uF	20%	16V
C483	1-126-197-11	ELECT CHIP	10uF	20%	50V
C485	1-127-820-11	CERAMIC	4.7uF		16V
C486	1-127-820-11	CERAMIC	4.7uF		16V
C487	1-127-820-11	CERAMIC	4.7uF		16V
C488	1-127-820-11	CERAMIC	4.7uF		16V
C489	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C490	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C491	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C492	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C501	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C502	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C503	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C506	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C507	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C509	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C510	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C511	1-125-565-11	DOUBLE LAYER	0.22F		5.5V
C512	1-125-565-11	DOUBLE LAYER	0.22F		5.5V
C513	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C514	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C535	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C557	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C562	1-125-817-11	CERAMIC CHIP	10uF	10%	6.3V
C601	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C602	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C603	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C604	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C605	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C606	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C607	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C608	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C609	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C611	1-124-779-00	ELECT CHIP	10uF	20%	16V
C612	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C613	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C615	1-126-204-11	ELECT CHIP	47uF	20%	16V

Ref. No.	Part No.	Description			Remark
C616	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C617	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C618	1-117-681-11	ELECT CHIP	100uF	20%	16V
C619	1-117-681-11	ELECT CHIP	100uF	20%	16V
C620	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C621	1-124-779-00	ELECT CHIP	10uF	20%	16V
C622	1-124-779-00	ELECT CHIP	10uF	20%	16V
C623	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C624	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C626	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C631	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C632	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C633	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C634	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C635	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C636	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C637	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C638	1-115-412-11	CERAMIC CHIP	680PF	5%	25V
C639	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C641	1-124-779-00	ELECT CHIP	10uF	20%	16V
C642	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C643	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C645	1-126-204-11	ELECT CHIP	47uF	20%	16V
C646	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C647	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C648	1-117-681-11	ELECT CHIP	100uF	20%	16V
C649	1-117-681-11	ELECT CHIP	100uF	20%	16V
C650	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C651	1-124-779-00	ELECT CHIP	10uF	20%	16V
C652	1-124-779-00	ELECT CHIP	10uF	20%	16V
C653	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C654	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C656	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C657	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C658	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C659	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C660	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C661	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C662	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C664	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C665	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C666	1-163-137-00	CERAMIC CHIP	680PF	5%	50V
C669	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C670	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C672	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C673	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C674	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C675	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C676	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C677	1-125-838-11	CERAMIC CHIP	2.2uF	10%	6.3V
C681	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C682	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C683	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C684	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C685	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C691	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C696	1-124-779-00	ELECT CHIP	10uF	20%	16V
C701	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V

Ref. No.	Part No.	Description			Remark
C705	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C706	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C707	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C751	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C752	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C753	1-164-700-11	CERAMIC CHIP	0.68uF		16V
C754	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C755	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C757	1-115-185-11	CERAMIC CHIP	0.033uF	10%	50V
C771	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C772	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C773	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C774	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C782	1-104-913-11	TANTALUM CHIP	10uF	20%	16V
C784	1-119-751-11	TANTALUM CHIP	22uF	20%	16V
C785	1-115-339-11	CERAMIC CHIP	0.1uF	10%	50V
C786	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C787	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C788	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C789	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C796	1-164-506-11	CERAMIC CHIP	4.7uF		16V
C797	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C798	1-164-230-11	CERAMIC CHIP	220PF	5%	50V
C799	1-163-125-00	CERAMIC CHIP	220PF	5%	50V

< CONNECTOR/JACK >

* CN101	1-506-984-11	PIN, CONNECTOR (PC BOARD) 2P	
CN202	1-764-441-21	CONNECTOR, FPC 30P	
CN251	1-770-410-11	CONNECTOR, BOARD TO BOARD 18P	
CN271	1-580-907-31	PLUG, CONNECTOR (BUS CONTROL IN)	
* CN291	1-564-506-11	PLUG, CONNECTOR 3P	
CN401	1-779-823-21	CONNECTOR, BOARD TO BOARD 30P	
CNJ252	1-691-258-21	JACK (MIC)	
CNJ272	1-566-822-41	JACK (REMOTE IN)	
CNP401	1-774-701-11	PIN, CONNECTOR 16P (POWER)	
CNP601	1-774-700-21	JACK, PIN 6P (LINE OUT FRONT, LINE OUT REAR, BUS AUDIO IN)	

< COMPOSITION CIRCUIT BLOCK >

CP101	1-803-335-21	ABSORBER, CHIP SURGE

< DIODE >

D181	8-719-047-98	DIODE HZU5.6B2TRF
D204	8-719-914-44	DIODE DAP202K-T-146
D251	8-719-071-71	DIODE HZU8.2B2TRF
D252	8-719-071-71	DIODE HZU8.2B2TRF
D253	8-719-071-71	DIODE HZU8.2B2TRF
D254	8-719-914-44	DIODE DAP202K-T-146
D255	8-719-071-71	DIODE HZU8.2B2TRF
D256	8-719-071-71	DIODE HZU8.2B2TRF
D257	8-719-071-71	DIODE HZU8.2B2TRF
D258	8-719-071-71	DIODE HZU8.2B2TRF
D259	8-719-071-71	DIODE HZU8.2B2TRF
D260	8-719-071-71	DIODE HZU8.2B2TRF
D261	8-719-071-71	DIODE HZU8.2B2TRF
D262	8-719-071-71	DIODE HZU8.2B2TRF
D263	8-719-071-25	DIODE HZU18B2TRF

MAIN

Ref. No.	Part No.	Description	Remark
D264	8-719-071-25	DIODE HZU18B2TRF	
D265	8-719-071-25	DIODE HZU18B2TRF	
D271	8-719-938-75	DIODE SB05-05CP-TB	
D272	8-719-064-08	DIODE HZU6.8B2TRF	
D273	8-719-071-25	DIODE HZU18B2TRF	
D274	8-719-071-25	DIODE HZU18B2TRF	
D275	8-719-064-03	DIODE HZU16B2TRF	
D276	8-719-105-99	DIODE HZU6.2B2TRF	
D277	8-719-073-01	DIODE MA111-TX	
D278	8-719-073-01	DIODE MA111-TX	
D279	8-719-071-71	DIODE HZU8.2B2TRF	
D280	8-719-071-71	DIODE HZU8.2B2TRF	
D282	8-719-073-01	DIODE MA111-TX	
D283	8-719-073-01	DIODE MA111-TX	
D291	8-719-941-23	DIODE DA204UT106	
D403	8-719-914-43	DIODE DAN202K-T-146	
D421	8-719-977-03	DIODE MA8056-H-TX	
D422	8-719-981-59	DIODE FC805-TL	
D423	8-719-938-75	DIODE SB05-05CP-TB	
D424	8-719-981-59	DIODE FC805-TL	
D431	8-719-064-08	DIODE HZU6.8B2TRF	
D432	8-719-914-43	DIODE DAN202K-T-146	
D441	8-719-914-43	DIODE DAN202K-T-146	
D442	8-719-064-08	DIODE HZU6.8B2TRF	
D461	8-719-420-51	DIODE MA729-TX	
D462	8-719-071-25	DIODE HZU18B2TRF	
D463	8-719-071-25	DIODE HZU18B2TRF	
D464	8-719-071-25	DIODE HZU18B2TRF	
D466	8-719-071-25	DIODE HZU18B2TRF	
D467	8-719-053-18	DIODE 1SR154-400TE-25	
D468	8-719-053-18	DIODE 1SR154-400TE-25	
D471	8-719-073-01	DIODE MA111-TX	
D472	8-719-073-01	DIODE MA111-TX	
D477	8-719-049-38	DIODE 1N5404TU	
D481	8-719-076-95	DIODE PTZ-TE25-18B	
D482	8-719-076-95	DIODE PTZ-TE25-18B	
D483	8-719-076-95	DIODE PTZ-TE25-18B	
D484	8-719-076-95	DIODE PTZ-TE25-18B	
D485	8-719-076-95	DIODE PTZ-TE25-18B	
D486	8-719-076-95	DIODE PTZ-TE25-18B	
D487	8-719-076-95	DIODE PTZ-TE25-18B	
D488	8-719-076-95	DIODE PTZ-TE25-18B	
D489	8-719-064-03	DIODE HZU16B2TRF	
D491	8-719-062-37	DIODE HZU3.9B1TRF	
D527	8-719-073-01	DIODE MA111-TX	
D546	8-719-071-71	DIODE HZU8.2B2TRF	
D555	8-719-976-99	DIODE HZU5.1B2TRF	
D601	8-719-941-23	DIODE DA204UT106	
D631	8-719-941-23	DIODE DA204UT106	
D661	8-719-941-23	DIODE DA204UT106	
D701	8-719-073-01	DIODE MA111-TX	
D702	8-719-073-01	DIODE MA111-TX	
D751	8-719-062-37	DIODE HZU3.9B1TRF	
		< FERRITE BEAD/SHORT >	
FB201	1-216-295-00	SHORT 0	
FB202	1-216-295-00	SHORT 0	
FB203	1-216-295-00	SHORT 0	
FB204	1-500-240-22	FERRITE 0uH	
FB205	1-500-240-22	FERRITE 0uH	
FB206	1-500-240-22	FERRITE 0uH	
FB301	1-500-240-22	FERRITE 0uH	
FB302	1-216-295-00	SHORT 0	
FB303	1-500-240-22	FERRITE 0uH	
FB305	1-500-240-22	FERRITE 0uH	
FB401	1-216-295-00	SHORT 0	
FB402	1-500-240-22	FERRITE 0uH	
		< IC >	
IC151	8-759-586-54	IC TDA7427ADTR	
IC271	8-759-593-98	IC BA8270FV-E2	
IC300	8-752-395-98	IC CXD2727Q	
IC351	8-759-524-05	IC TC74VHC126FT (EL)	
IC401	8-759-710-88	IC NJM431U-TE2	
IC402	8-759-643-48	IC BA00ASFP-E2	
IC403	8-759-476-23	IC BA08SFP-E2	
IC404	8-759-460-72	IC BA033FP-E2	
IC421	8-759-525-98	IC RN5VL45CA-TL	
IC481	8-759-486-44	IC TDA7386	
IC500	8-759-593-49	IC MB90574APMT-G-214-BND	
IC506	8-759-571-49	IC XC61AN4102PR	
IC507	8-759-495-76	IC RN5VD33AA-TL	
IC601	8-759-385-17	IC NJM4580E (TE2)	
IC602	8-759-594-52	IC LM1973MX	
IC603	8-759-394-84	IC NJM072BM-TE2	
IC604	8-759-593-97	IC NJM2160AM-TE2	
IC631	8-759-385-17	IC NJM4580E (TE2)	
IC632	8-759-594-52	IC LM1973MX	
IC633	8-759-394-84	IC NJM072BM-TE2	
IC634	8-759-593-97	IC NJM2160AM-TE2	
IC661	8-759-385-17	IC NJM4580E (TE2)	
IC663	8-759-394-84	IC NJM072BM-TE2	
IC691	8-759-488-29	IC TC7W66FU (TE12L)	
IC701	8-759-648-83	IC HD6472355F20A08F	
IC702	8-759-277-63	IC TC7W14FU (TE12R)	
IC752	8-759-488-29	IC TC7W66FU (TE12L)	
IC771	8-759-473-80	IC BA3131FS-E2	
		< SHORT >	
JC100	1-216-295-00	SHORT 0	
JC101	1-216-295-00	SHORT 0	
JC201	1-216-295-00	SHORT 0	
JC207	1-216-295-00	SHORT 0	
JC251	1-216-295-00	SHORT 0	
JC300	1-216-295-00	SHORT 0	
JC351	1-216-295-00	SHORT 0	
JC401	1-216-295-00	SHORT 0	
		< COIL >	
L181	1-412-060-11	INDUCTOR CHIP 22uH	
L401	1-412-058-11	INDUCTOR CHIP 10uH	
L402	1-412-054-21	INDUCTOR CHIP 2.2uH	
L403	1-412-054-21	INDUCTOR CHIP 2.2uH	
L404	1-412-058-11	INDUCTOR CHIP 10uH	
L506	1-412-060-11	INDUCTOR CHIP 22uH	

Ref. No.	Part No.	Description			Remark
L701	1-412-060-11	INDUCTOR CHIP	22uH		
		< TRANSISTOR >			
Q131	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q132	8-729-921-25	TRANSISTOR	FMC2-T148		
Q133	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q180	8-729-904-63	TRANSISTOR	DTB123YK-T-146		
Q181	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q182	8-729-904-63	TRANSISTOR	DTB123YK-T-146		
Q183	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q185	8-729-920-85	TRANSISTOR	2SD1664-T101-QR		
Q251	8-729-025-48	TRANSISTOR	XN4381-TX		
Q253	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q254	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q255	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q256	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q271	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q272	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q273	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q274	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q275	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q401	8-729-920-85	TRANSISTOR	2SD1664-T101-QR		
Q402	8-729-106-60	TRANSISTOR	2SB1132-T101-QR		
Q403	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q421	8-729-822-84	TRANSISTOR	2SB1202FAT-TL		
Q422	8-729-230-49	TRANSISTOR	2SC2712-YG-TE85L		
Q423	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q424	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q431	8-729-120-28	TRANSISTOR	2SC2412K-T-146-QR		
Q441	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q451	8-729-905-35	TRANSISTOR	2SC4081T106R		
Q461	8-729-049-13	FET	UPA1853GR-9JG-E1		
Q462	8-729-429-92	TRANSISTOR	XN1211-TX		
Q471	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q472	8-729-026-53	TRANSISTOR	2SA1576A-T106-QR		
Q473	8-729-921-25	TRANSISTOR	FMC2-T148		
Q474	8-729-921-25	TRANSISTOR	FMC2-T148		
Q501	8-729-028-91	TRANSISTOR	DTA144EUA-T106		
Q504	1-801-806-11	TRANSISTOR	DTC144EK-T146		
Q523	8-729-024-31	TRANSISTOR	XN1111-TX		
Q601	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q602	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q631	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q632	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q661	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q662	8-729-400-56	TRANSISTOR	2SD1328-T-TX		
Q691	8-729-029-14	TRANSISTOR	DTC144EUA-T106		
Q751	8-729-921-25	TRANSISTOR	FMC2-T148		
Q752	8-729-047-71	TRANSISTOR	FMG12-T-148		
Q753	8-729-920-21	TRANSISTOR	DTC314TK-T-146		
		< RESISTOR >			
R101	1-216-025-00	RES, CHIP	100	5%	1/10W
R102	1-216-037-00	METAL CHIP	330	5%	1/10W
R104	1-216-073-00	METAL CHIP	10K	5%	1/10W
R105	1-216-081-00	METAL CHIP	22K	5%	1/10W
R106	1-216-057-00	METAL CHIP	2.2K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R111	1-216-296-00	SHORT	0		
R113	1-216-295-00	SHORT	0		
R114	1-216-864-11	METAL CHIP	0	5%	1/16W
R124	1-216-037-00	METAL CHIP	330	5%	1/10W
R133	1-216-821-11	METAL CHIP	1K	5%	1/16W
R134	1-216-841-11	METAL CHIP	47K	5%	1/16W
R135	1-216-833-11	RES, CHIP	10K	5%	1/16W
R151	1-216-017-00	RES, CHIP	47	5%	1/10W
R153	1-216-001-00	METAL CHIP	10	5%	1/10W
R154	1-216-813-11	METAL CHIP	220	5%	1/16W
R155	1-216-813-11	METAL CHIP	220	5%	1/16W
R157	1-216-295-00	SHORT	0		
R158	1-216-073-00	METAL CHIP	10K	5%	1/10W
R159	1-216-073-00	METAL CHIP	10K	5%	1/10W
R160	1-216-097-00	RES, CHIP	100K	5%	1/10W
R161	1-216-077-00	RES, CHIP	15K	5%	1/10W
R162	1-216-083-00	METAL CHIP	27K	5%	1/10W
R181	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R182	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R202	1-216-295-00	SHORT	0		
R251	1-218-710-11	METAL CHIP	5.6K	0.5%	1/16W
R252	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R253	1-216-845-11	METAL CHIP	100K	5%	1/16W
R254	1-216-049-11	RES, CHIP	1K	5%	1/10W
R255	1-216-025-00	RES, CHIP	100	5%	1/10W
R256	1-216-025-00	RES, CHIP	100	5%	1/10W
R257	1-216-833-11	RES, CHIP	10K	5%	1/16W
R258	1-216-833-11	RES, CHIP	10K	5%	1/16W
R259	1-208-462-41	RES, CHIP	10K	2%	1/10W
R260	1-208-462-41	RES, CHIP	10K	2%	1/10W
R262	1-216-049-11	RES, CHIP	1K	5%	1/10W
R263	1-216-049-11	RES, CHIP	1K	5%	1/10W
R264	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R265	1-216-041-00	METAL CHIP	470	5%	1/10W
R271	1-216-001-00	METAL CHIP	10	5%	1/10W
R272	1-216-073-00	METAL CHIP	10K	5%	1/10W
R273	1-216-025-00	RES, CHIP	100	5%	1/10W
R274	1-216-025-00	RES, CHIP	100	5%	1/10W
R275	1-216-841-11	METAL CHIP	47K	5%	1/16W
R276	1-216-841-11	METAL CHIP	47K	5%	1/16W
R277	1-216-845-11	METAL CHIP	100K	5%	1/16W
R278	1-216-845-11	METAL CHIP	100K	5%	1/16W
R279	1-216-025-00	RES, CHIP	100	5%	1/10W
R280	1-216-025-00	RES, CHIP	100	5%	1/10W
R281	1-208-462-41	RES, CHIP	10K	2%	1/10W
R282	1-208-462-41	RES, CHIP	10K	2%	1/10W
R283	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R285	1-216-841-11	METAL CHIP	47K	5%	1/16W
R291	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R292	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R293	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R294	1-216-627-11	METAL CHIP	100	0.5%	1/10W
R331	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R333	1-216-129-00	METAL CHIP	2.2M	5%	1/10W
R334	1-216-821-11	METAL CHIP	1K	5%	1/16W
R335	1-216-821-11	METAL CHIP	1K	5%	1/16W
R337	1-216-821-11	METAL CHIP	1K	5%	1/16W
R341	1-216-825-11	METAL CHIP	2.2K	5%	1/16W

MAIN

Ref. No.	Part No.	Description			Remark
R342	1-216-089-00	RES, CHIP	47K	5%	1/10W
R352	1-216-295-00	SHORT	0		
R353	1-216-295-00	SHORT	0		
R354	1-216-295-00	SHORT	0		
R401	1-216-033-00	METAL CHIP	220	5%	1/10W
R402	1-216-045-00	METAL CHIP	680	5%	1/10W
R403	1-216-033-00	METAL CHIP	220	5%	1/10W
R404	1-216-041-00	METAL CHIP	470	5%	1/10W
R405	1-216-045-00	METAL CHIP	680	5%	1/10W
R406	1-216-065-00	RES, CHIP	4.7K	5%	1/10W
R408	1-216-295-00	SHORT	0		
R412	1-216-295-00	SHORT	0		
R421	1-216-089-00	RES, CHIP	47K	5%	1/10W
R422	1-216-680-11	METAL CHIP	16K	0.5%	1/10W
R423	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R430	1-216-821-11	METAL CHIP	1K	5%	1/16W
R431	1-216-081-00	METAL CHIP	22K	5%	1/10W
R432	1-216-081-00	METAL CHIP	22K	5%	1/10W
R434	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R441	1-216-839-11	METAL CHIP	33K	5%	1/16W
R442	1-216-841-11	METAL CHIP	47K	5%	1/16W
R443	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R444	1-216-841-11	METAL CHIP	47K	5%	1/16W
R451	1-216-833-11	RES, CHIP	10K	5%	1/16W
R452	1-216-833-11	RES, CHIP	10K	5%	1/16W
R453	1-216-845-11	METAL CHIP	100K	5%	1/16W
R454	1-216-839-11	METAL CHIP	33K	5%	1/16W
R461	1-216-073-00	METAL CHIP	10K	5%	1/10W
R462	1-216-073-00	METAL CHIP	10K	5%	1/10W
R463	1-216-073-00	METAL CHIP	10K	5%	1/10W
R464	1-216-073-00	METAL CHIP	10K	5%	1/10W
R466	1-216-833-11	RES, CHIP	10K	5%	1/16W
R471	1-216-073-00	METAL CHIP	10K	5%	1/10W
R472	1-216-833-11	RES, CHIP	10K	5%	1/16W
R473	1-216-809-11	METAL CHIP	100	5%	1/16W
R474	1-216-821-11	METAL CHIP	1K	5%	1/16W
R475	1-216-837-11	METAL CHIP	22K	5%	1/16W
R476	1-216-821-11	METAL CHIP	1K	5%	1/16W
R477	1-216-049-11	RES, CHIP	1K	5%	1/10W
R478	1-216-845-11	METAL CHIP	100K	5%	1/16W
R479	1-216-833-11	RES, CHIP	10K	5%	1/16W
R481	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R482	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R483	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R484	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R485	1-216-837-11	METAL CHIP	22K	5%	1/16W
R486	1-216-837-11	METAL CHIP	22K	5%	1/16W
R487	1-216-837-11	METAL CHIP	22K	5%	1/16W
R488	1-216-837-11	METAL CHIP	22K	5%	1/16W
R501	1-216-097-00	RES, CHIP	100K	5%	1/10W
R502	1-216-821-11	METAL CHIP	1K	5%	1/16W
R503	1-216-864-11	METAL CHIP	0	5%	1/16W
R505	1-216-097-00	RES, CHIP	100K	5%	1/10W
R506	1-216-813-11	METAL CHIP	220	5%	1/16W
R509	1-216-033-00	METAL CHIP	220	5%	1/10W
R510	1-216-097-00	RES, CHIP	100K	5%	1/10W
R512	1-216-845-11	METAL CHIP	100K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R513	1-216-295-00	SHORT	0		
R514	1-216-033-00	METAL CHIP	220	5%	1/10W
R515	1-216-033-00	METAL CHIP	220	5%	1/10W
R516	1-216-813-11	METAL CHIP	220	5%	1/16W
R517	1-216-813-11	METAL CHIP	220	5%	1/16W
R519	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R520	1-216-097-00	RES, CHIP	100K	5%	1/10W
R521	1-216-845-11	METAL CHIP	100K	5%	1/16W
R522	1-216-097-00	RES, CHIP	100K	5%	1/10W
R523	1-216-853-11	METAL CHIP	470K	5%	1/16W
R524	1-216-295-00	SHORT	0		
R525	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R526	1-216-097-00	RES, CHIP	100K	5%	1/10W
R528	1-216-295-00	SHORT	0		
R551	1-216-841-11	METAL CHIP	47K	5%	1/16W
R585	1-216-845-11	METAL CHIP	100K	5%	1/16W
R587	1-216-097-00	RES, CHIP	100K	5%	1/10W
R591	1-216-839-11	METAL CHIP	33K	5%	1/16W
R595	1-216-049-11	RES, CHIP	1K	5%	1/10W
R601	1-218-711-11	METAL CHIP	6.2K	0.5%	1/16W
R602	1-216-833-11	RES, CHIP	10K	5%	1/16W
R603	1-216-841-11	METAL CHIP	47K	5%	1/16W
R604	1-218-711-11	METAL CHIP	6.2K	0.5%	1/16W
R605	1-216-833-11	RES, CHIP	10K	5%	1/16W
R606	1-216-841-11	METAL CHIP	47K	5%	1/16W
R607	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R608	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R609	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R610	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R612	1-202-926-11	RES, CHIP	36K	5%	1/16W
R613	1-218-293-11	RES, CHIP	24K	5%	1/16W
R614	1-218-293-11	RES, CHIP	24K	5%	1/16W
R615	1-202-926-11	RES, CHIP	36K	5%	1/16W
R616	1-216-833-11	RES, CHIP	10K	5%	1/16W
R617	1-216-833-11	RES, CHIP	10K	5%	1/16W
R618	1-216-033-00	METAL CHIP	220	5%	1/10W
R619	1-216-049-11	RES, CHIP	1K	5%	1/10W
R620	1-216-049-11	RES, CHIP	1K	5%	1/10W
R621	1-216-033-00	METAL CHIP	220	5%	1/10W
R622	1-216-081-00	METAL CHIP	22K	5%	1/10W
R623	1-216-081-00	METAL CHIP	22K	5%	1/10W
R627	1-216-833-11	RES, CHIP	10K	5%	1/16W
R628	1-216-833-11	RES, CHIP	10K	5%	1/16W
R629	1-216-833-11	RES, CHIP	10K	5%	1/16W
R630	1-216-833-11	RES, CHIP	10K	5%	1/16W
R631	1-218-711-11	METAL CHIP	6.2K	0.5%	1/16W
R632	1-216-833-11	RES, CHIP	10K	5%	1/16W
R633	1-216-841-11	METAL CHIP	47K	5%	1/16W
R634	1-218-711-11	METAL CHIP	6.2K	0.5%	1/16W
R635	1-216-833-11	RES, CHIP	10K	5%	1/16W
R636	1-216-841-11	METAL CHIP	47K	5%	1/16W
R637	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R638	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R639	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R640	1-216-667-11	METAL CHIP	4.7K	0.5%	1/10W
R642	1-202-926-11	RES, CHIP	36K	5%	1/16W
R643	1-218-293-11	RES, CHIP	24K	5%	1/16W
R644	1-218-293-11	RES, CHIP	24K	5%	1/16W

Ref. No.	Part No.	Description			Remark
R645	1-202-926-11	RES, CHIP	36K	5%	1/16W
R646	1-216-833-11	RES, CHIP	10K	5%	1/16W
R647	1-216-833-11	RES, CHIP	10K	5%	1/16W
R648	1-216-033-00	METAL CHIP	220	5%	1/10W
R649	1-216-049-11	RES, CHIP	1K	5%	1/10W
R650	1-216-049-11	RES, CHIP	1K	5%	1/10W
R651	1-216-033-00	METAL CHIP	220	5%	1/10W
R652	1-216-081-00	METAL CHIP	22K	5%	1/10W
R653	1-216-081-00	METAL CHIP	22K	5%	1/10W
R657	1-216-073-00	METAL CHIP	10K	5%	1/10W
R658	1-216-073-00	METAL CHIP	10K	5%	1/10W
R661	1-216-073-00	METAL CHIP	10K	5%	1/10W
R662	1-216-073-00	METAL CHIP	10K	5%	1/10W
R663	1-216-089-00	RES, CHIP	47K	5%	1/10W
R667	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R668	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R669	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R670	1-218-730-11	METAL CHIP	39K	0.5%	1/16W
R678	1-216-033-00	METAL CHIP	220	5%	1/10W
R679	1-216-049-11	RES, CHIP	1K	5%	1/10W
R680	1-216-049-11	RES, CHIP	1K	5%	1/10W
R681	1-216-033-00	METAL CHIP	220	5%	1/10W
R682	1-216-081-00	METAL CHIP	22K	5%	1/10W
R683	1-216-081-00	METAL CHIP	22K	5%	1/10W
R691	1-216-833-11	RES, CHIP	10K	5%	1/16W
R692	1-216-833-11	RES, CHIP	10K	5%	1/16W
R693	1-216-841-11	METAL CHIP	47K	5%	1/16W
R695	1-216-845-11	METAL CHIP	100K	5%	1/16W
R696	1-216-097-00	RES, CHIP	100K	5%	1/10W
R701	1-216-845-11	METAL CHIP	100K	5%	1/16W
R702	1-216-845-11	METAL CHIP	100K	5%	1/16W
R703	1-216-845-11	METAL CHIP	100K	5%	1/16W
R704	1-216-033-00	METAL CHIP	220	5%	1/10W
R705	1-216-033-00	METAL CHIP	220	5%	1/10W
R706	1-216-033-00	METAL CHIP	220	5%	1/10W
R707	1-216-025-00	RES, CHIP	100	5%	1/10W
R709	1-216-041-00	METAL CHIP	470	5%	1/10W
R710	1-216-033-00	METAL CHIP	220	5%	1/10W
R711	1-216-097-00	RES, CHIP	100K	5%	1/10W
R714	1-216-864-11	METAL CHIP	0	5%	1/16W
R715	1-216-845-11	METAL CHIP	100K	5%	1/16W
R717	1-216-845-11	METAL CHIP	100K	5%	1/16W
R718	1-216-845-11	METAL CHIP	100K	5%	1/16W
R720	1-216-097-00	RES, CHIP	100K	5%	1/10W
R721	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R751	1-216-813-11	METAL CHIP	220	5%	1/16W
R752	1-216-813-11	METAL CHIP	220	5%	1/16W
R753	1-216-081-00	METAL CHIP	22K	5%	1/10W
R754	1-216-081-00	METAL CHIP	22K	5%	1/10W
R756	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R757	1-216-081-00	METAL CHIP	22K	5%	1/10W
R761	1-216-841-11	METAL CHIP	47K	5%	1/16W
R762	1-216-841-11	METAL CHIP	47K	5%	1/16W
R763	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R765	1-216-097-00	RES, CHIP	100K	5%	1/10W
R771	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R772	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R773	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R774	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R775	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R776	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R777	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R778	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R779	1-218-714-11	METAL CHIP	8.2K	0.5%	1/16W
R780	1-218-720-11	METAL CHIP	15K	0.5%	1/16W
R781	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R782	1-218-704-11	METAL CHIP	3.3K	0.5%	1/16W
R783	1-218-702-11	METAL CHIP	2.7K	0.5%	1/16W
R784	1-218-724-11	METAL CHIP	22K	0.5%	1/16W
R785	1-218-712-11	METAL CHIP	6.8K	0.5%	1/16W
R786	1-218-732-11	METAL CHIP	47K	0.5%	1/16W
R787	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R788	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R789	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R791	1-208-795-11	RES, CHIP	3.6K	2%	1/10W
R792	1-208-795-11	RES, CHIP	3.6K	2%	1/10W
R797	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R798	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R799	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
		< COMPOSITION CIRCUIT BLOCK >			
RB251	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB252	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB301	1-233-578-11	RES, CHIP NETWORK 47K			
RB502	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB504	1-216-182-00	RES, CHIP NETWORK 220 (3216)			
RB505	1-233-412-11	RES, CHIP NETWORK 1K (3216)			
RB507	1-216-182-00	RES, CHIP NETWORK 220 (3216)			
		< SWITCH >			
S500	1-762-108-31	SWITCH, PUSH (1 KEY) (NOSE DETECT)			
		< THERMISTOR >			
TH271	1-801-792-21	THERMISTOR, POSITIVE			
TH461	1-803-615-21	THERMISTOR, POSITIVE			
TH462	1-803-615-21	THERMISTOR, POSITIVE			
		< TUNER >			
TU101	A-3282-045-A	TUNER UNIT (TUX-012 (E))			
		< VIBRATOR >			
X151	1-781-361-21	VIBRATOR, CRYSTAL (10.25MHz)			
X300	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			
X500	1-781-660-11	VIBRATOR, CERAMIC (3.58MHz)			
X501	1-760-928-21	VIBRATOR, CRYSTAL (32.768kHz)			
X701	1-781-030-21	VIBRATOR, CRYSTAL (18.432MHz)			
**********					
*	A-3294-730-A	RELAY BOARD, COMPLETE			
		**********			
	3-040-760-01	SHEET (CONNECTOR)			
		< CAPACITOR >			
C701	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V

RELAY

Ref. No.	Part No.	Description			Remark
C702	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C705	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C706	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
		< CONNECTOR >			
CN701	1-793-290-11	SOCKET, CONNECTOR 18P			
CN702	1-779-169-11	SOCKET, CONNECTOR 18P			
		< DIODE >			
D701	8-719-056-84	DIODE HZU7.5B2TRF			
D702	8-719-056-84	DIODE HZU7.5B2TRF			
D703	8-719-056-84	DIODE HZU7.5B2TRF			
D704	8-719-056-84	DIODE HZU7.5B2TRF			
D705	8-719-056-84	DIODE HZU7.5B2TRF			
D706	8-719-056-84	DIODE HZU7.5B2TRF			
D707	8-719-071-25	DIODE HZU18B2TRF			
		< LED >			
LED706	8-719-064-72	LED BG1101F-10-TR (MD DISC SLOT)			
		< SWITCH >			
LSW702	1-771-703-11	SWITCH, KEYBOARD (WITH LED) (⏏)			
		< RESISTOR >			
R701	1-216-033-00	METAL CHIP	220	5%	1/10W
R709	1-216-295-00	SHORT	0		
		< SWITCH >			
S703	1-572-921-11	SWITCH, KEY BOARD (RESET)			

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